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(54) SOLAR CELL INTERCONNECTOR

(57) Abstract:

PURPOSE: To absorb thermal stress and avoid damage to a cell by a method wherein corresponding to a flat electrode and a bar electrode provided on the light receiving surface of a solar cell, a plurality of spot-shaped connectors and loop connectors are provided as interconnectors and they are connected by means of a thin metal plate.

CONSTITUTION: A plurality of silicon solar cells, each provided with flat electrode 14 and bar electrode 24 on its light receiving surface 13, are connected to interconnectors 11, which are connected to one another by means of thin metal piece 30. In this structure, connectors 11 are made of punched pieces of thin copal plate, whose thermal expansion coefficient is close to that of silicon. Opposite flat electrode 14, a plurality of spot-shaped connectors 15~18 are formed. Further, opposite bar electrode 24, loop connecting terminals 19~22 are provided. Connectors 15~18 are connected to connecting terminals 19~22 by means of thin plate metal pattern 23. Connectors 11 and 11' are integrated by means of thin metal piece 30. Pattern 23 is provided

with notches 25~28, and thereby its flexibility is increased.

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